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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,685	11/15/2001	Menashe Shahar	P-3439-US	7189
7:	590 12/23/2004		EXAMINER	
Browdy And Neimark 624 Nineth Street, N. W.			SHAW, SHAWNA JEANNINE	
Washington, DC 20001			ART UNIT	PAPER NUMBER
<i>5</i> ,			3737	

DATE MAILED: 12/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/987,685	SHAHAR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shawna J. Shaw	3737				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 10282004.						
2a) This action is FINAL . 2b) ∑ This	action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 7-32 and 44-46 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 7-32 and 44-46 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 10282004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 03242004, 12182003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 7-32 and 44-46 have been considered but are moot in view of the new ground(s) of rejection. In addition, it appears that claim 33 was previously cancelled in the amendment filed 4/6/2004 and accordingly has not been addressed.

Claim Interpretation

The examiner understands "spectrometer" to mean "1: an instrument used for measuring wavelengths of light" (Merriam-Webster's online dictionary) and which may encompass: FT spectrometers, grating spectrometers, Acousto-Optical Tunable Filter spectrometers, diode array spectrometers, filter-type spectrometers, etc. (see e.g., Ciurczak et al. US 2002/0193671, [0008-9] and claim 4).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 7-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Burns et al.

Regarding claims 7-13, Burns et al. disclose all of the claimed structure, including a device (40) "capable of" obtaining a spectrum of light from an ear; and a processing

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unit/computer (18 – inherently processing digitized data and having an accessible memory) including a spectrometer (col. 4 lines 37-40 and col. 6 lines 15-28). See also fig. 1 and col. 7 lines 38-47.

Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 7-15, 18-22, 25-32 and 44 are rejected under 35 U.S.C. 103(a) as obvious over Sheehan et al. of record in view of MacKinnon et al. of record or alternatively further in view of Crowley.

Regarding claims 7-15, 29-32 and 44, Sheehan et al. teaches a portable otoscope including a device capable of obtaining a spectrum of reflected light (i.e., CCD), and a microprocessor with accessible memory (208, 210 – inherently processing

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digitized signals) capable of translating the spectrum of reflected light to one or more output values related to the condition of the ear and for comparing with a reference value stored in memory or available via the Internet (col. 6 line 46 – col. 7 line 29). Sheehan further discloses a lamp (205), a light fiber, a user interface (212) and a LCD display (220). Sheehan et al. differs from the claimed invention in that a spectrometer is not specifically addressed. MacKinnon et al. generally teach assessing tissue conditions using spectral filters disposed in endoscopes, otoscopes, etc. to measure wavelengths of light and reduce the need for bulky sensor arrays, analyzers etc. (col. 1 lines 10-42 and col. 2 lines 8-33). It would have been obvious at the time the invention was made to a person of ordinary skill in the art to modify the device of Sheehan et al. to include a filter-type spectral measurement system as taught by MacKinnon et al. for the above described reasons. Crowley generally demonstrates that miniature spectrometers (41) for placement within a body are also well known. See fig. 1A and 2A, col. 1 lines 22-35 and col. 1 line 45 – col. 2 line 30. It would have alternatively been obvious at the time the invention was made to a person of ordinary skill in the art to incorporate a miniature spectrometer of the type taught by Crowley in the invention of Sheehan et al. in view of MacKinnon et al. to provide a compact means for accurate tissue and wavelength analysis without the need for breakable optical fibers.

Further regarding claims 18-22, although Sheehan et al. makes a comparison to previously acquired measurements, comparison to a healthy ear, the other ear, or ears with otitis media is not addressed expressly. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the

art to compare with a healthy ear, the other ear, or ears with otitis media because Applicant has not disclosed that such comparisons provide an advantage, are used for a particular purpose, or solve a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with reference data about the patient, or another, stored in a database or on the Internet as taught by Sheehan et al. since many reference values may be obtained therefrom providing indication for a variety of ear-related disorders.

Further regarding claims 25-28, although Sheehan et al. teaches an LCD display and input buttons (216) or menu-control system (col. 5 lines 1, 2), a numeric keyboard is not addressed expressly. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to use a numeric keyboard because Applicant has not disclosed that a numeric keypad provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either input buttons, menu-control input or a numeric keyboard because all perform the same function of allowing a user to input information into a patient file.

3. Claims 16, 17, 23, 24, 45 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sheehan et al. in view of MacKinnon et al., or alternatively further in view of Crowley et al., as applied to claims 7-15, 29-32 and 44 above, in view of Mahler et al. of record.

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Regarding claims 16, 17, 23, 24, 45 and 46, although Sheehan et al. obtains infrared ear measurements over time, and more specifically temperature measurements and fluid identification (col. 6 line 66 – col. 7 line 3), Sheehan et al. differs from the claimed invention in that the steps of specifically diagnosing otitis media or degree of redness or effusion are not discussed. Mahler et al. generally teaches a computerized process for comparing acquired temperature measurements over time with a predetermined reference to diagnose otitis media and to quantify the extent of associated redness and effusion (col. 1 lines 25-33 and 60-65, col. 2 lines 5-7, fig. 3). It would have been obvious at the time the invention was made to a person of ordinary skill in the art to further modify the microprocessor of Sheehan et al. to compare the acquired temperature data with a pre-determined reference to diagnose conditions such as otitis media as taught by Mahler et al. so as to provide a more cost effective diagnostic tool rendering diagnoses related to the condition of the ear with improved accuracy.

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Allowable Subject Matter

4. The indicated allowability of claims 7 and 8 is withdrawn in view of the newly discovered reference(s) to Burns et al., Crowley and Ciurczak.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawna J. Shaw whose telephone number is (571) 272-4743. The examiner can normally be reached on 6:45 a.m. - 3:15 p.m..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571) 272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shawna J. Shaw Primary Examiner

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